

## AG and Committee Annual/ Annual Report

**AG/Committee Name: Sediment (SEDAG)**

**Submitted by: Tamara Sorell**

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The SEDAG is currently managed through a steering committee (SC) that was renewed in October, 2014. The current members are shown in Table 1, and represented by four inaugural committee members and seven new members. Stuart Simpson was joined by co-chair Tamara Sorell to serve as SC chair in 2016.

### Activities Summary

- There are three Working Groups, as described below.
- Email announcements and blogs using the Advisory Group blog feature have been sent to all subscribed SEDAG members regarding sediment meetings and sessions.

### Examples of SEDAG sponsored session 'promotion' at other meetings:

SEDAG is officially affiliated with a proposed session at the SETAC Europe 27th Annual Meeting:

“Future challenges in sediment toxicity testing for environmental risk assessment”

Co-Chairs: Paul, Theo Brock (Alterra Wageningen) and Hank Krueger (EAG, formerly Wildlife)

Nantes, France, meeting:

Co-Chair Tamara Sorell prepared a slide for use at the AG Summit in Nantes. She also called into the meeting (but there were technology problems with remote participation).

North Atlantic Chapter meeting (June 2016)

Local members of the Risk Management group met at the NAC meeting

### Working Groups

1. “Compilation of contaminant-spiked sediment toxicity data (SETAC database)” (led by Steve Bay and sponsored by SEDAG) has been assembling a database. An update to the by SEDAG was completed in October 2016. The revised version contains additional studies, with a major contribution of pyrethroid toxicity studies compiled by the Pyrethroid Working Group. In addition, the updated database includes additional information regarding test conditions, sediment characteristics, spiking methods, and study quality for each study. The current version of the database contains over 2,700 records of toxicity responses associated reported by 194 publications or laboratory reports. The results include 110 different chemicals and 65 species (both freshwater and marine). Highlights of the contents include over 700 results for copper and nickel (includes multiple results for a single experiment) and over 1000 results for pyrethroids.
2. “Harmonization of methods for assessing contaminated sediments” has transitioned leadership from Chris Ingersoll to Teresa Norberg-King. The WG has a session entitled “Science of Sediment Toxicity Testing: Method Advances, Interpreting Results and Use of Data in Ecological Risk Assessments” will be held on Tuesday afternoon, November 8. There will be 13 poster presentations on Tuesday (Posters TP184-TP193).

The platform presentations are:

- Analytical Challenges for Quantification of Test Materials in Prospective Sediment Toxicity Laboratory Investigations
- SEDAG Spiked Sediment Database: A New Resource for Sediment Toxicology Data Discovery and Synthesis  
The Challenges Associated With Achieving Freshwater Sediment Toxicity Testing Standardization in Australasia
- Characterization of sediment chemistry, sediment toxicity and macroinvertebrate communities in wadeable streams of the Southeastern United States
- Resolving Sediment Toxicity for Ecological Risk Assessment at Complex Urban Waterways

- Predicting sediment metal toxicity to *Hyalella azteca* using a metals mixtures version of the Biotic Ligand Model
  - Evaluating the relative sensitivity of endpoints generated during midge life-cycle for US FIFRA sediment toxicity test requirements- Part II.
  - EPA's Method for the Amphipod, *Hyalella azteca*, Water-only Exposures for Acute, Short-Term Tests, and Chronic Toxicity Tests  
Updates to the sediment toxicity test method guidance documents are being prepared by USEPA/ASTM, and a number of refinements for the three species in the method manual (*Hyalella azteca*, *C. dilutus*, *Lumbriculus variegatus*) will be included. The manual revisions are underway and will be circulated to the SEDAG group for their review.
  - The WG hopes to have a session on sediment method harmonization in the EU meeting in Brussels in the spring
3. "Sediment Risk Management" (led by Tamara Sorell) is looking into the integration of assessment into decision-making. The WG will be supporting the ASTM Sediment Corrective Action Task Force with contacts and review as part of the development of the "Standard Guide for Sediment Corrective Action."

#### Future Plans

- Tamara has reached out to the Risk Management Working Group to identify members who will be present.
- A notice will be sent out via the SEDAC blog before the meeting reminding members and encouraging them to attend.
- Continue to propose and develop sediment sessions at SETAC meetings and hold SEDAG meetings at most major conferences.
- Continue to promote the active working groups.

#### Business and Planning Meetings

- A meeting at the World Congress in Orland has been scheduled.

#### Membership Communications

Communication with members now mostly occur using the 'Email All Group Members' tools within 'Options' in the 'Global Advisory Groups: Sediment' web site:

<http://www.setac.org/members/group.aspx?id=90706>

In addition, Working Groups hold calls and send e-mails.

#### Issues/Problems

Time is scarce for all scientists and it is a challenge getting working groups active. An additional challenge in the Risk Management group has been identifying a suitable objective for the team given the formation of the ASTM Task Force on Sediment Correction Action, which formed shortly after the Working Group kick-off. An opportunity to partner with the ASTM Task Force was ultimately rejected by the Work Group due to concerns about the disparate structure and objectives of the two parent organizations.

**Table 1. Committee member, category, location and institute**

<b>Academia</b>		
Paul Sibley	Canada	University of Guelph
Jing You	China	Chinese Academy of Sciences
Jussi Kukkonen	Finland	University of Jyväskylä
<b>Industry</b>		
Amy Oen	Norway	Norges Geotekniske Institutt
Tamara Sorell	USA	Brown and Caldwell ( <b>Current Co-Chair</b> )
Frank Dillon	USA	CH2M Hill GEI
Shaun Roark	USA	Consultants

Greg Schiefer	USA	SETAC North America
<b><u>Government</u></b>		
Steve Bay	USA	SCCWRP
Stuart Simpson	Australia	CSIRO ( <b>Current Co-Chair</b> )
Lisa Taylor	Canada	Environment Canada

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Regards,

Tamara Sorell (SEDAG co-chair)